

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480650

Luminaire Tested: **IFLD-S-SA2D-830-U-SL3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P480650  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-830-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

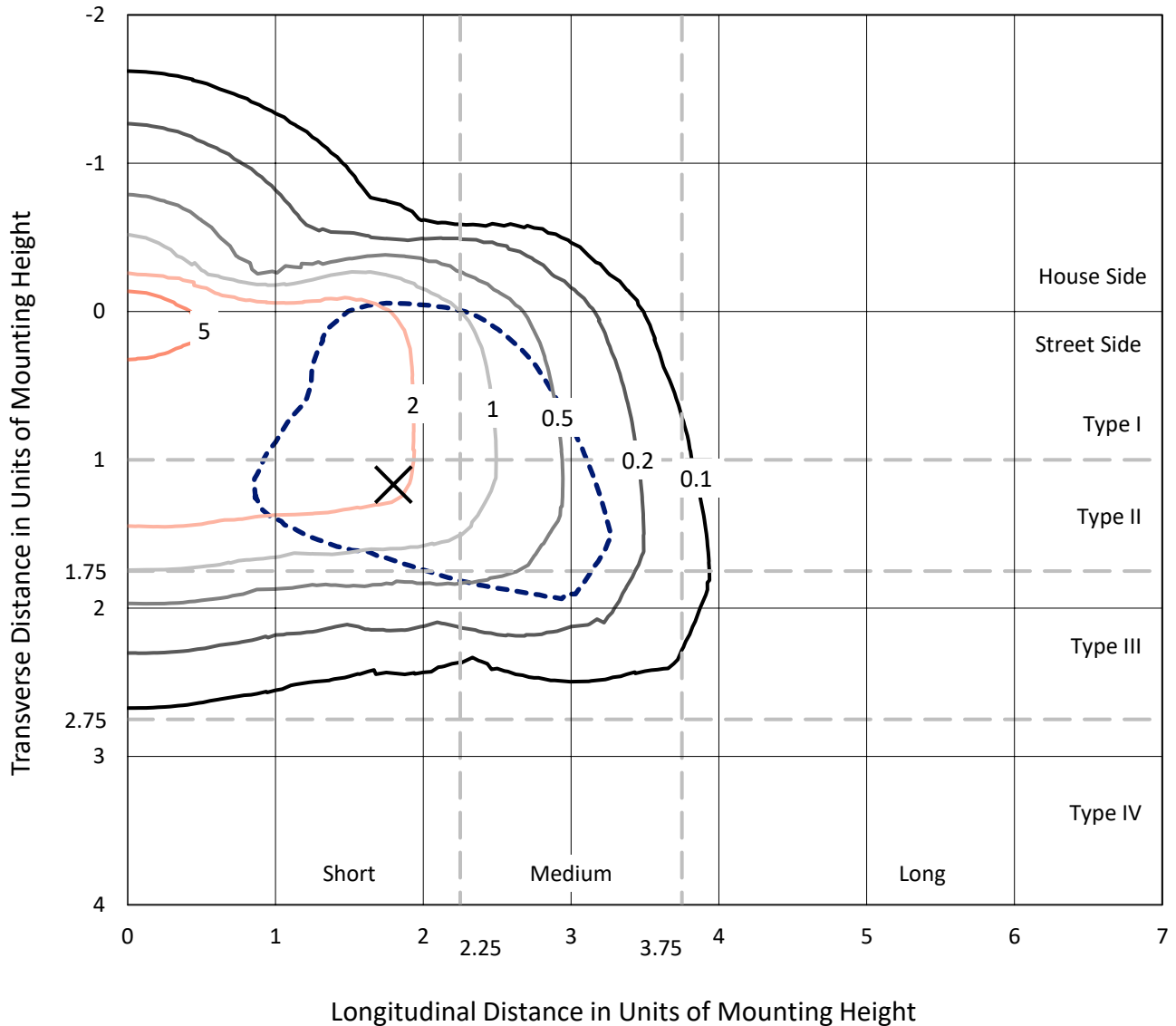
Lumens per Lamp: N/A  
Luminaire Lumens: 12262.2 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

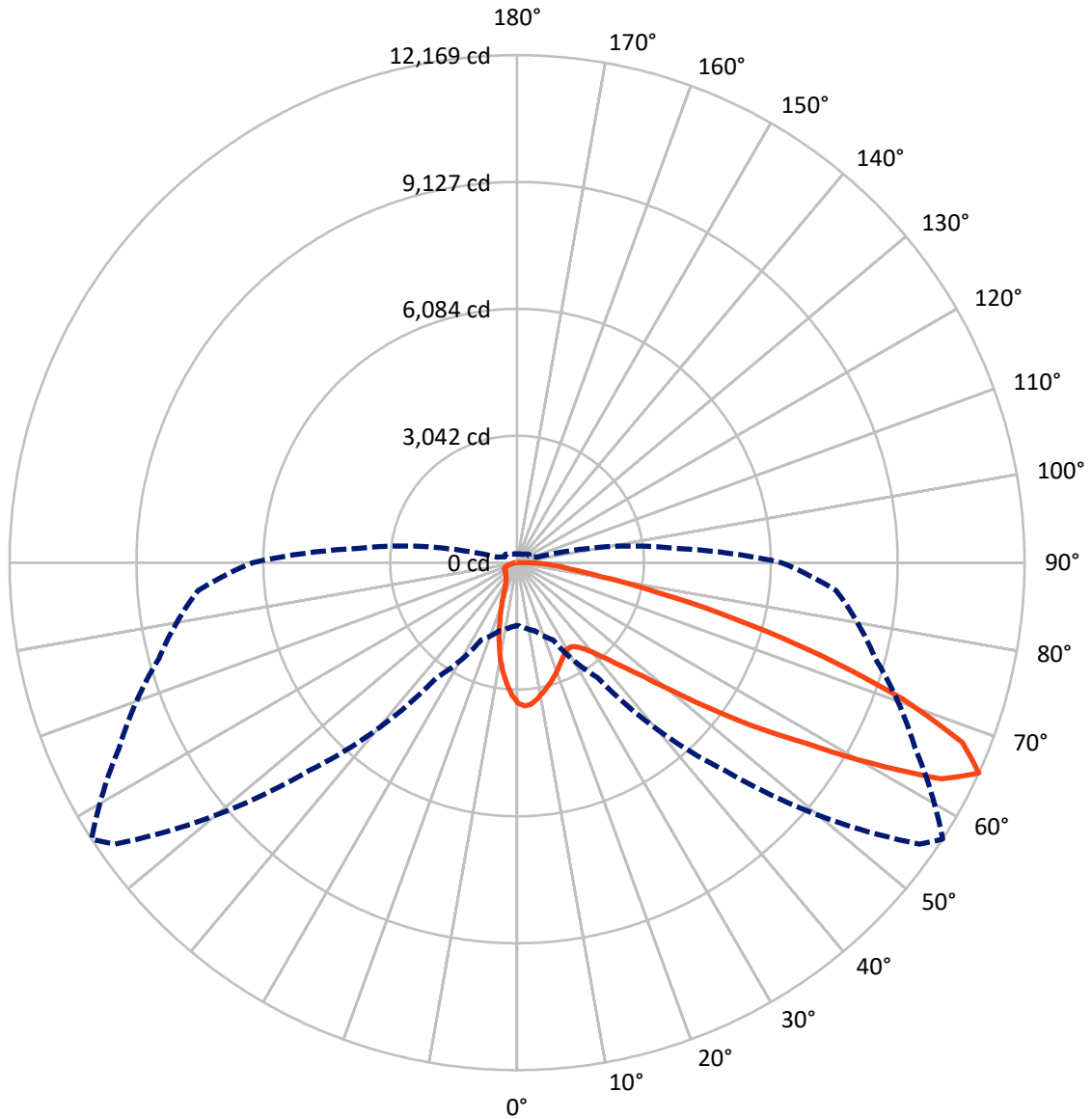
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1880.5	0.0	1880.5
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	10381.7	0.0	10381.7
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	12262.2	0.0	12262.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.4	2.3
10°-20°	607.7	5.0
20°-30°	785.7	6.4
30°-40°	1057.3	8.6
40°-50°	1685.9	13.7
50°-60°	2977.8	24.3
60°-70°	3276.0	26.7
70°-80°	1370.4	11.2
80°-90°	219.0	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12262.2	100.0
0°-180°	12262.2	100.0

**Coefficient of Utilization**



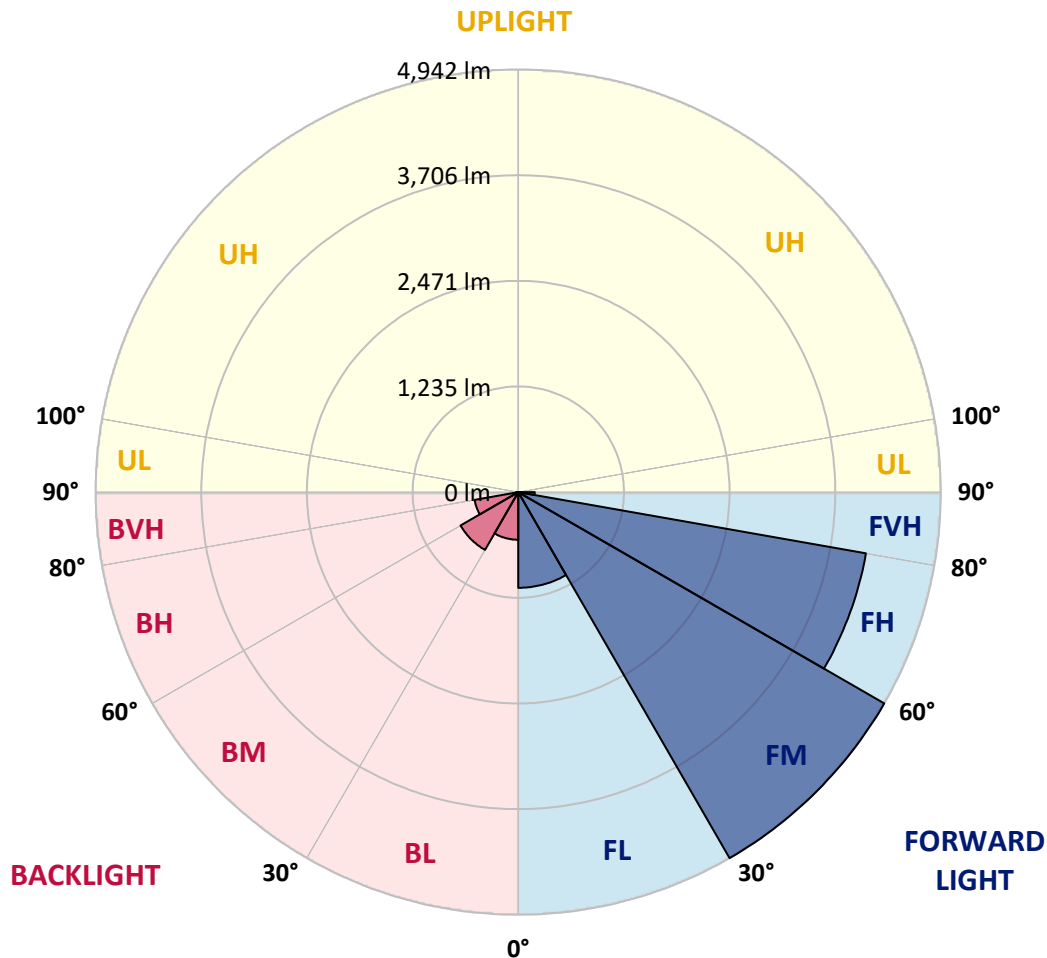
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.9	9.1			
FM (30°-60°)	4941.7	40.3			
FH (60°-80°)	4127.8	33.7			G2/5000
FVH (80°-90°)	193.3	1.6			G2/225
BL (0°-30°)	556.9	4.5	B2/1000		
BM (30°-60°)	779.4	6.4	B1/1000		
BH (60°-80°)	518.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	25.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9
2.5°	3463.0	3468.5	3468.5	3479.5	3442.3	3460.2	3457.5	3440.9	3446.4	3417.5	3388.5
5°	3365.0	3360.9	3383.0	3385.7	3414.7	3423.0	3429.9	3418.8	3421.6	3358.1	3330.5
7.5°	3113.9	3112.6	3149.8	3181.5	3242.2	3298.8	3336.1	3325.0	3340.2	3300.2	3235.3
10°	2815.9	2847.7	2886.3	2918.0	3029.8	3101.5	3198.1	3207.8	3265.7	3256.0	3138.8
12.5°	2592.4	2606.2	2635.2	2726.2	2828.3	2947.0	3085.0	3097.4	3153.9	3181.5	3079.4
15°	2408.9	2421.3	2458.6	2526.2	2640.7	2781.4	2956.6	2988.4	3101.5	3111.2	3002.2
17.5°	2275.1	2284.7	2309.6	2377.2	2471.0	2651.7	2817.3	2873.9	3022.9	3069.8	2922.2
20°	2222.7	2202.0	2215.8	2258.5	2352.4	2491.7	2705.5	2755.2	2945.6	3038.1	2846.3
22.5°	2199.2	2181.3	2189.5	2186.8	2261.3	2360.6	2585.5	2637.9	2872.5	3000.8	2778.7
25°	2217.1	2217.1	2208.9	2202.0	2210.2	2275.1	2455.8	2537.2	2774.5	2969.1	2709.7
27.5°	2313.7	2276.5	2280.6	2251.6	2243.4	2243.4	2397.9	2446.2	2742.8	2951.1	2653.1
30°	2375.8	2393.7	2395.1	2352.4	2309.6	2232.3	2344.1	2391.0	2716.6	2973.2	2620.0
32.5°	2534.5	2526.2	2502.7	2494.5	2431.0	2344.1	2370.3	2402.0	2701.4	3022.9	2629.7
35°	2693.1	2689.0	2690.4	2686.2	2620.0	2491.7	2440.7	2483.4	2729.0	3109.8	2662.8
37.5°	2857.3	2868.4	2915.3	2915.3	2844.9	2705.5	2637.9	2625.5	2829.7	3251.9	2741.4
40°	3021.5	3049.1	3108.4	3202.2	3102.9	2973.2	2864.2	2844.9	2951.1	3442.3	2930.4
42.5°	3178.8	3224.3	3341.6	3480.9	3447.8	3318.1	3173.3	3151.2	3200.9	3725.1	3194.0
45°	3380.2	3418.8	3603.7	3817.6	3863.1	3748.6	3578.9	3560.9	3558.2	4139.0	3556.8
47.5°	3686.5	3727.9	3912.8	4128.0	4268.7	4286.7	4096.3	4076.9	4010.7	4697.8	4088.0
50°	4070.0	4137.7	4293.6	4544.7	4748.9	4940.6	4886.8	4830.3	4700.6	5347.6	4761.3
52.5°	4350.1	4432.9	4644.0	4965.5	5325.6	5630.5	5823.6	5823.6	5525.6	6060.9	5571.1
55°	4424.6	4474.3	4740.6	5205.5	5822.2	6593.5	6997.7	6967.4	6507.9	6811.5	6513.5
57.5°	4128.0	4192.8	4515.7	5002.7	6083.0	7494.4	8163.6	8170.5	7581.3	7683.4	7443.4
60°	3311.2	3331.9	3712.7	4363.9	5831.9	8220.1	9755.7	9781.9	8802.3	8460.2	7916.6
62.5°	2288.9	2355.1	2642.1	3213.3	4831.6	8138.7	11291.3	11421.0	9780.5	8869.9	7991.1
65°	1506.6	1546.6	1699.8	2047.4	3363.7	7054.3	11768.7	12168.8	10528.3	8893.4	7679.3
67.5°	1092.7	1099.6	1145.1	1324.5	2021.2	5073.1	10953.3	11517.6	10808.4	8697.5	6948.1
70°	883.0	888.5	905.1	1019.6	1305.2	3174.6	8933.4	9817.8	9968.2	7769.0	5596.0
72.5°	717.4	724.3	745.0	852.6	1076.1	1766.0	6532.8	7610.3	8108.4	5747.7	3719.6
75°	564.3	569.8	619.5	725.7	1011.3	1212.7	4333.6	5389.0	5456.6	3359.5	1741.2
77.5°	386.3	396.0	456.7	615.3	952.0	1061.0	2701.4	3452.0	3097.4	1314.8	598.8
80°	245.6	259.4	295.3	466.3	841.6	1012.7	1680.4	2061.2	1356.2	449.8	288.4
82.5°	144.9	158.7	194.5	302.1	660.9	939.6	1183.8	1290.0	636.0	230.4	173.8
85°	80.0	89.7	117.3	182.1	387.7	834.7	947.8	925.8	364.2	122.8	109.0
87.5°	26.2	30.4	42.8	73.1	160.0	393.2	568.4	533.9	189.0	56.6	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9	3371.9
2.5°	3369.2	3365.0	3302.9	3256.0	3176.0	3109.8	3083.6	3047.7	3046.3	3020.1	3013.2
5°	3287.8	3245.0	3149.8	3058.7	2916.6	2821.4	2734.5	2673.8	2649.0	2595.2	2582.8
7.5°	3182.9	3126.4	2980.1	2809.0	2642.1	2493.1	2357.9	2222.7	2146.8	2120.6	2091.6
10°	3073.9	2974.6	2758.0	2566.2	2333.0	2104.0	1891.5	1701.1	1597.7	1524.5	1492.8
12.5°	2987.0	2854.6	2578.6	2291.6	1984.0	1677.7	1430.7	1230.7	1113.4	1058.2	1033.4
15°	2889.0	2713.8	2382.7	2019.8	1636.3	1288.6	1047.2	889.9	843.0	816.8	812.6
17.5°	2785.6	2582.8	2170.2	1752.2	1296.9	969.9	814.0	750.5	729.8	718.8	713.3
20°	2689.0	2465.5	1952.2	1454.2	1015.4	778.1	705.0	671.9	670.5	676.0	674.7
22.5°	2552.4	2312.3	1737.0	1178.2	811.3	677.4	630.5	622.2	630.5	637.4	640.2
25°	2475.1	2186.8	1497.0	935.4	670.5	601.5	586.4	583.6	596.0	604.3	602.9
27.5°	2395.1	2057.1	1273.4	749.2	587.7	547.7	545.0	547.7	560.1	572.6	571.2
30°	2333.0	1953.6	1063.7	626.4	524.3	509.1	506.3	509.1	516.0	517.4	517.4
32.5°	2282.0	1830.8	885.8	543.6	485.6	473.2	476.0	474.6	476.0	477.4	478.7
35°	2251.6	1757.7	739.5	492.5	453.9	444.3	442.9	438.7	440.1	441.5	440.1
37.5°	2316.5	1721.8	623.6	456.7	431.8	423.6	420.8	418.0	413.9	413.9	413.9
40°	2414.4	1702.5	553.3	433.2	415.3	405.6	397.3	394.6	394.6	396.0	397.3
42.5°	2609.0	1734.3	505.0	415.3	394.6	383.6	375.3	376.7	380.8	384.9	382.2
45°	2890.4	1830.8	482.9	401.5	382.2	367.0	361.5	360.1	364.2	371.1	376.7
47.5°	3258.8	1981.2	474.6	389.1	373.9	353.2	346.3	350.4	356.0	365.6	361.5
50°	3861.7	2319.2	481.5	378.0	361.5	346.3	338.0	333.9	338.0	344.9	347.7
52.5°	4649.5	2933.2	507.7	372.5	353.2	340.8	327.0	320.1	324.2	329.7	329.7
55°	5591.8	3772.0	580.8	365.6	339.4	332.5	317.3	303.5	306.3	306.3	304.9
57.5°	6422.4	4405.3	667.8	356.0	331.1	321.5	302.1	285.6	282.8	284.2	285.6
60°	6794.9	4573.6	709.2	353.2	331.1	307.7	281.5	264.9	260.8	258.0	258.0
62.5°	6730.1	4282.5	625.0	340.8	339.4	296.6	262.1	244.2	238.7	233.2	234.5
65°	6338.2	3867.2	492.5	324.2	340.8	289.7	242.8	224.9	215.2	208.3	207.0
67.5°	5622.2	3301.6	390.4	311.8	327.0	277.3	226.3	205.6	197.3	190.4	187.6
70°	4398.4	2588.3	339.4	295.3	293.9	247.0	207.0	189.0	176.6	168.3	168.3
72.5°	2851.8	1636.3	291.1	262.1	253.9	207.0	179.4	168.3	158.7	151.8	151.8
75°	1291.4	760.2	234.5	219.4	207.0	165.6	151.8	146.2	138.0	131.1	131.1
77.5°	463.6	324.2	175.2	172.5	154.5	128.3	122.8	118.7	113.1	106.2	106.2
80°	259.4	205.6	131.1	125.6	107.6	95.2	88.3	88.3	85.5	81.4	80.0
82.5°	164.2	133.8	96.6	84.2	70.4	63.5	60.7	59.3	57.9	52.4	51.0
85°	103.5	91.1	63.5	49.7	41.4	31.7	30.4	29.0	26.2	23.5	23.5
87.5°	46.9	52.4	24.8	15.2	11.0	6.9	4.1	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)